

# FLOOME™

## Instructions manual

### SAFETY INSTRUCTIONS

Use the product only for its intended purpose and in accordance with the instructions for use, which can be viewed by visiting the website: <http://www.floome.com> - This device is only intended to be used for the detection of blood-alcohol content and not to determine the capability of an individual to drive also because alcohol consumption is perceived differently from person to person. However, it is known that the assumption of alcohol compromises the reflexes and the ability to drive exposing the driver and passengers to potential dangers - This device is intended for private use only and it is not designed and/or intended for commercial or industrial use. Use the device only if in perfect condition. If any parts are damaged or there is a suspected malfunctioning, discontinue immediately the use, and contact only qualified personnel to verify the device · Maintenance and repair may only be carried out by qualified personnel identified by 2045Tech S.r.l. · The device contains no repairable parts by the user · Any action intended to open the device will void the warranty whose terms can be found at: <http://www.floome.com> · Never put the device into water or any other liquids, the device is neither waterproof nor water-resistant. To clean the device, use only a soft cloth. Avoid cleaners or solvents that can damage the device · The device is not suitable for use by children. Keep it out of their reach · This device contains small parts that could be swallowed or inhaled causing suffocation.

### PARTS IDENTIFICATION

In the figure it is possible to observe the device and its enumerated parts:  
(1) main body of the device, (2) silicone mouthpiece, (3) circular room, (4) fluid outlet and (5) 3.5mm jack interface.

### MAINTENANCE

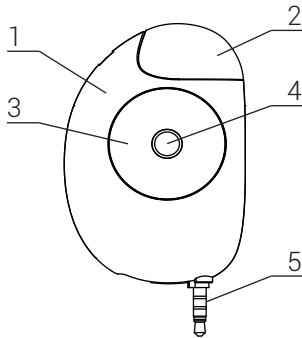
Repair or maintenance of the device can be carried out only by experts appointed by 2045Tech S.r.l. Only original parts may be used for repair. The device contains no part that can be repaired by the user. Any intervention or tampering will void the warranty. It is required for the user to respect the intervals, and maintenance methods discussed later in this manual.

### ACCESSORIES AND SPARE PARTS

Only accessories and spare parts explicitly endorsed by 2045Tech S.r.l. are available to the end user for direct application to or replacement in the product.

### INTENDED USE

The device is designed to estimate the blood alcohol content (BAC) of an individual by measuring the alcohol in his breath (BrAC). The device is intended for personal use, and the measurements, estimates and data supplied by the device are to be understood as merely indicative, and not as an evaluation of the state of a person or of his ability to drive.



### MEASUREMENT

Using FLOOME™ is very simple, and the application, available for iOS, Android and Windows operating systems, makes the measurement process absolutely intuitive.

### REQUIREMENTS

In addition to FLOOME™, it is necessary to own a smartphone device running an iOS (7+), Android (4.2.2+) or Windows Phone (8.1+) operating system. Through the several application marketplaces, which are different depending on the operating system, it is necessary to find, and install the free application called "Floome", provided by 2045Tech S.r.l. Once the application is installed, you must sign up to create a user profile. An interactive guide is also provided during the first use, which de facto replaces the present measurement instructions.

### INSTALLING/REPLACING THE MOUTHPIECE

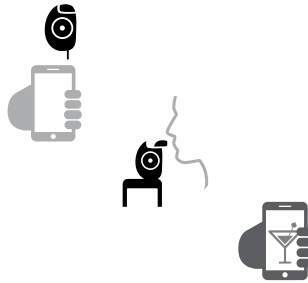
The device is provided with a mouthpiece, already installed. To replace it, temporarily or permanently, you can simply rotate it 180 degrees, and pull it vertically, until detachment. The new mouthpiece can be installed by simply pushing it onto the protruded part the previous mouthpiece was attached to.

### REQUIREMENTS OF THE SUBJECT TAKING THE TEST

It is essential for the accuracy of the measurement that the subject has not ingested alcoholic beverages for at least 20 minutes prior to the test. Residual presence of alcohol in the mouth can affect the measurement, it is therefore necessary to rinse with water. Ingesting aromatic drinks such as fruit juices, although not alcoholic, can affect the measurement if ingested right before the test. Please note that, for example, the consumption of food containing garlic or onion may generate an overestimation of the measurement. Before testing, the subject has to breathe normally, and just before blowing, he has to be able to exhale an air volume of at least 0.5L with sufficient strength and at a constant level.

### TAKING THE TEST

1. Turn the mouthpiece and extend the 3.5mm jack from the device
2. Activate the application on your smartphone
3. Connect the device firmly to your smartphone via the 3.5mm jack until it clicks confirming a proper connection to the device
4. Follow the instructions in the application to enable the measurement process, in particular by activating the "Start" button
5. Blow consistently but not too hard up until the smartphone vibrates or flashes indicating the end of the testing process
6. Wait for the measurement to finish and check the result
7. If the presence of an error is mentioned, try to modify the intensity or duration of the blow, as suggested by the application, to obtain a measurement



### MOST COMMON REMEDIES

Should the device present any operating anomalies, it is possible to use this table as a reference to solve most common problems.

PROBLEM	SOLUTION	FURTHER ADVICE
Device is not recognized by the application	Try to turn off and restart the application and try it on another smartphone. Be sure the application has access rights to the microphone	If no improvement is detected, verify that the 3.5mm jack contacts are cleaned.
Measurement fails and an error is displayed on the application	Follow the instructions on the application to improve the use of the device.	If necessary, rely on the interactive tutorial provided in the application.
Despite having followed the tutorial, the measurement cannot be completed. The device produces a different whistle from the usual one.	Verify that no foreign elements are present in the whistle chamber. To this purpose, use a cotton swab and inspect the chamber with a light.	If foreign elements are not easily removable, remove the mouthpiece and blow in the air outlet to eject the elements from the intake.

Should the device present further problems, stop using it immediately, and ask for assistance to 2045Tech S.r.l.

### SERVICE AND CALIBRATION

No service or battery replacement is required, and the user cannot anyway carry it out. In order to be sure that your FLOOME™ is always in optimal conditions, and can deliver you accurate measurements, we advice you to have it calibrated after approximately 500 tests, and anyway no later than 12 months from its first use.

1. You will receive an e-mail and/or notification on the FLOOME™ app that will advise you to go to the website [www.floome.com](http://www.floome.com) to buy the recalibration service
2. The service is very straightforward: a recalibration voucher will be generated, which will have printed on it the address of the nearest recalibration facility, and a unique code (which will be sent to you by e-mail)
3. Once you have printed the voucher, you will need to send the device through ordinary mail or express courier using the shipping address on the voucher and attaching the same in the package. Please be sure to have a good shock insulation material while packing the device to avoid any damage during shipping. Thus, we advice you to choose wisely the shipping method, and consider to opt for a shipping insurance.
4. Once received by the recalibration facility, FLOOME's recalibration process shall take about a week, after which FLOOME™ will be returned to you by ordinary or express shipping.

### STORAGE

The device must be kept in an environment, which is compatible with its characteristics. It can be stored without being used for up to 10 years, but this would compromise the performance of the sensor, that is no longer guaranteed at that point.

### CLEANING

The device should never be submerged in liquids. The mouthpiece is the only washable part. It can be cleaned only with neutral soap, and has to be reinstalled only once completely dry.



This product bears the CE Marking as it meets the requirements of the relevant EU directives. The use of the CE mark is handled by 2045Tech S.r.l. - Via delle Cape 3/5 - 30021 Caorle (VE), Italy. For a copy of the declaration of conformity, please visit our website at: <http://www.floome.com>.



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



### DISPOSAL OF PRODUCTS

This symbol indicates that this product must not be disposed of with household products. Correct disposal of this product will help prevent potential negative consequences for the environment, and human health, which could result from improper handling of the product as waste. For more detailed information about the recycling of this product, please contact your local city office, your local waste disposal service or the shop where you purchased the product.

### TECHNICAL SPECIFICATIONS

MATERIALS	The device chassis is made of an ABS/Polycarbonate blend, which makes it shock resistant, in principle. The mouthpiece is made of a non-toxic solvent-free silicone rubber, suitable for lip contact.
MEASUREMENT PRINCIPLE	Electrochemical fuel-cell sensor, combined with a vortex whistle flow-meter.
MEASUREMENT INTERVAL	BAC from .005 to 0.250 g/dL.
DISPLAY INTERVAL	The display interval matches the measurement interval. If a sample with more than the maximum measurable concentration is introduced, the text ">.250 g/dL" will be shown.
ENVIRONMENTAL CONDITIONS	Operating: 10-40°C, non-condensing humidity between 10 and 90%, ambient pressure from 700 to 1200 hPa. Storage: 0-50°C
SAMPLING	The minimum sampled volume is 0.5L and it requires a duration of the blow of at least 2.5 seconds.
ACCURACY	Measurement's accuracy depends on the measured value: e.g. BAC from .000 a .100 g/dL: ±0.0075 g/dL; BAC from .100 to .250 g/dL: ±7.5% of displayed value.
WEIGHT	Approx.. 40 grams
SIZE	75 x 50 x18 mm (H x W x D)
POWER	The device does not require any external power source. It is equipped, inside, with a battery, which will assure a life of 3000 tests or 10 years, whichever comes first.

### PRODUCER

This device is designed and manufactured in Italy by:  2045Tech S.r.l.  
Via delle Cape 3/5 - 30021 Caorle (VE)  
[info@floome.com](mailto:info@floome.com) - [www.floome.com](http://www.floome.com)

any communication can be made through the website [www.2045tech.com](http://www.2045tech.com) or by email to [info@floome.com](mailto:info@floome.com).

### INTELLECTUAL PROPERTY

The design of the device is protected by a U.S. design patent (US D706149 S1) and the vortex flow-meter by a pending international application (PCT/EP2013/055883).

### MISCELLANEOUS

Please consult the terms and conditions of the product on [www.floome.com](http://www.floome.com) to have further information on the warranty, other causes that may alter the results of the tests, etc.